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DATE MAILED: 11/17/2005

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--------------------------------------|-----------------------|----------------------|---------------------|------------------|
| 09/774,505 | 01/31/2001 | Richard H. Boivie | YOR920000617US1 | 3106 |
| 23334 | 23334 7590 11/17/2005 | | EXAMINER | |
| • | N, GIBBONS, GUTM | SHAND, RO | SHAND, ROBERTA A | |
| & BIANCO P. | | ARTIBUT | DADED MINADED | |
| ONE BOCA COMMERCE CENTER | | | ART UNIT | PAPER NUMBER |
| 551 NORTHWEST 77TH STREET, SUITE 111 | | | 2665 | |
| BOCA RATO | N FL 33487 | | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | ιK | | | | |
|---|--|--|--|--|--|--|
| | | Application No. | Applicant(s) | | | |
| | | 09/774,505 | BOIVIE, RICHARD H. | | | |
| | Office Action Summary | Examiner | Art Unit | | | |
| | | Roberta A. Shand | 2665 | | | |
| Period f | The MAILING DATE of this communication app or Reply | pears on the cover sheet with the | e correspondence address | | | |
| WHI0 - Exte after - If NO - Failt Any | HORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE IN THE MAILING THE | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDO | ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133). | | | |
| Status | | | | | | |
| 1)[\] | Responsive to communication(s) filed on 17 Au | ugust 2005. | | | | |
| 2a)⊠ | This action is FINAL. 2b) ☐ This action is non-final. | | | | | |
| 3) | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| | closed in accordance with the practice under E | Ex parte Quayle, 1935 C.D. 11, | 453 O.G. 213. | | | |
| Disposit | ion of Claims | | | | | |
| 4)⊠ | Claim(s) 1-33 is/are pending in the application. | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| 5)⊠ | Claim(s) <u>23-25,27,28,32 and 33</u> is/are allowed. | • | | | | |
| 6)⊠ | | | | | | |
| 7)🖾 | Claim(s) <u>7,8,15,19-22 and 31</u> is/are objected to | | | | | |
| 8) | Claim(s) are subject to restriction and/or | r election requirement. | | | | |
| Applicat | ion Papers | | | | | |
| 9)[| The specification is objected to by the Examine | r. | | | | |
| 10) | The drawing(s) filed on is/are: a) acce | epted or b) objected to by the | e Examiner. | | | |
| | Applicant may not request that any objection to the | • | ` <i>'</i> | | | |
| _ | Replacement drawing sheet(s) including the correcti | - · · | • | | | |
| 11) | The oath or declaration is objected to by the Ex | aminer. Note the attached Office | ce Action or form PTO-152. | | | |
| Priority (| under 35 U.S.C. § 119 | | | | | |
| - | Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of: | priority under 35 U.S.C. § 119 | (a)-(d) or (f). | | | |
| | 1. Certified copies of the priority documents have been received. | | | | | |
| | 2. Certified copies of the priority documents | • | | | | |
| | 3. Copies of the certified copies of the prior | • | ived in this National Stage | | | |
| | application from the International Bureau | | | | | |
| , | See the attached detailed Office action for a list of | or the certified copies not recei | vea. | | | |
| Attachmen | | | | | | |
| 1) 🔯 Notic 2) 🔲 Notic | ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) | 4) 🔲 Interview Summa Paper No(s)/Mail | | | | |
| | mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) 🔲 Notice of Informa | l Patent Application (PTO-152) | | | |
| Pape | er No(s)/Mail Date | 6) | | | | |

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Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-6, 9-14, 16, 26, 29 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jones (U.S. 6512776 B1) in view of Nakamura (U.S. 5771352).
- Regarding claim 1, Jones teaches (fig. 2) a method of delivering information to multiple networked devices, comprising: receiving a first request for a first item of information from a first networked device (client 1), requesting information to be delivered as an ordinary unicast packet; receiving a second request for the first item of information from a second networked device (client 2), requesting information to be delivered as an ordinary unicast packet.
- 4. Jones does not teach a packet including a first address used for the first networked device, and second address used for the second networked device, and a data payload that includes at least a part of the first item of information, for delivering the data payload to multiple networked devices, wherein the at least part of the first item of information included in the data payload being destined for reception by the first device in a first ordinary packet, and further wherein the at least part of the first item of information included in the data payload being destined for reception by the second networked device in a second ordinary unicast packet.
- 5. Nakamura teach (figs. 2-3 and col. 8, lines 45 col. 9, line 9) a packet including a first address used for the first networked device, and second address used for the second networked

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device, and a data payload that includes at least a part of the first item of information, for

delivering the data payload to multiple networked devices, wherein the at least part of the first

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item of information included in the data payload being destined for reception by the first device

in a first ordinary packet, and further wherein the at least part of the first item of information

included in the data payload being destined for reception by the second networked device in a

second ordinary unicast packet.. It would have been obvious to one of ordinary skill in the art to

adapt to Jones system, Nakamura's concept of destination address in the header to save time is

delivering the same information several different stations.

6. Regarding claim 2, Jones teaches (fig. 2) in response to the first request forming a first

packet indicating the first address and a first data payload; in response to the second request

forming a second packet indicating the first address and a first data payload; determining that the

first packet and the second packet both include the data payload; and performing the step of

forming a combined packet (abstract, the first data stream and the second data stream into a

single data stream).

7. Regarding claim 3, Jones teaches (col. 2, lines 59 – col. 3, lines 14) comparing the byte

size of the first packet to the byte size of the second packet.

8. Regarding claim 4, Jones teaches (col. 2, lines 54 – col. 3) computing a cannonical

checksum for the first packet; computing a cannonical checksum for the second packet; and

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comparing the cannonical checksum for the first packet to the cannonical checksum for the second packet.

- 9. Regarding claim 5, Jones teaches (col. 2, lines 54 – col. 3) performing a byte-by byte comparison of the data payload of the first packet and of the second packet.
- Regarding claim 6, Jones teaches (col. 2, lines 54 col. 3) computing a cannonical 10. checksum for the first packet; computing a cannonical checksum for the second packet; comparing the cannonical checksum for the first packet to the cannonical checksum for the second packet; and in the case that the cannonical checksum for the first packet matches the cannonical checksum for the second packet, performing a byte-by-byte comparison of the data payloads of the first and second packet.
- Regarding claim 9, Jones teaches (col. 2, lines 59 col. 3) comparing the byte size of the 11. first packet to the byte size of the second packet, in the case where the sizes match, computing a cannonical checksum for the first packet; computing a cannonical checksum for the second packet; and comparing the cannonical checksum for the first packet to the cannonical checksum for the second packet.
- 12. Regarding claim 10, Jones teaches (col. 2, lines 54 – col. 3) in the case that the cannonical checksum for the first packet matches the cannonical checksum for the second

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packet, performing a byte-by-byte comparison of the data payloads of the first and second packet.

- Regarding claim 11, Jones teaches (col. 2, lines 59 col. 3, lines 14) comparing the byte size of the first packet to the byte size of the second packet, in the case where the byte sizes match, performing a byte-by byte comparison of the data payload of the first packet and of the second packet.
- 14. Regarding claim 12, Jones teaches (fig. 2) receiving a request for web content. In the Jones reference, figure 2 depicts Internet as the source network, therefore it is inherent in Jones' system that web content information can be requested.
- 15. Regarding claim 13, Jones teaches (fig. 2) receiving a request for web content. In the Jones reference, figure 2 depicts Internet as the source network therefore it is inherent in Jones' system that http information can be requested.
- 16. Regarding claim 14, Nakamura teaches (col. 8, line 45 col. 9, line 9) adding to the combined packet a first reliable unicast header part associated with the first address; and adding to the combined packet a second reliable unicast header part associated with the second address.
- 17. Regarding claim 16, Jones teaches a method of relaying a packet in a network, comprising: receiving a data content part of a first packet; receiving a first destination address

part of the first packet used for the first device; and receiving a second destination address part of the first packet used for a second device (col. 4, lines 32-43).

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- Jones does not teach receiving a first reliable unicast header part associated with the first 18. address; and receiving a second reliable unicast header part associated with the second address.
- Nakamura teaches (col. 8, line 45 –col. 9, line 9 and figs. 2-3) multicasting messages 19. using multiple headers and a single payload. It would have been obvious to one of ordinary skill in the art to adapt to Jones's system Nakamura's concept of multiple headers to ensure proper delivery of the message to the designated destination and maintain the tracking of information within the system.
- 20. Regarding claim 26, Jones teaches (fig. 2) a network device comprising: a comparator for comparing an item of information associated with a first destination address with an item of information associated with a second destination address (col. 2, lines 33-34); a packet manager for combining the first destination address, the second destination address, and the item of information in a packet; and a network interface for transmitting the packet (abstract, the first data stream and the second data stream into a single data stream).
- Jones does not teach the item of information is to be received at the first destination 21. network address in a first unicast packet and at the second destination network address in a second unicast packet
- Nakamura teaches (col. 9, line 45 col. 9, line 9) the item of information is to be 22. received at the first destination network address in a first unicast packet and at the second destination network address in a second unicast packet. It would have been obvious to one of

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ordinary skill in the art to adapt to Jones system, Nakamura's concept of destination address in the header to save time is delivering the same information several different stations.

- Regarding claim 29, Jones teaches (fig. 2 and (col. 2, lines 30-52)) a computer readable medium containing programming instructions for distributing information over a network, comprising: receiving a first request for a first item of information from a first networked device (client 1), requesting information to be delivered as an ordinary unicast packet; receiving a second request for the first item of information from a second networked device (client 2), requesting information to be delivered as an ordinary unicast packet.
- Jones does not teach a packet including a first address used for the first networked device, and second address used for the second networked device, and a data payload that includes at least a part of the first item of information, for delivering the data payload to multiple networked devices, wherein the at least part of the first item of information included in the data payload being destined for reception by the first device in a first ordinary packet, and further wherein the at least part of the first item of information included in the data payload being destined for reception by the second networked device in a second ordinary unicast packet.
- 25. Nakamura teach (col. 8, lines 45 col. 9, line 9) a packet including a first address used for the first networked device, and second address used for the second networked device, and a data payload that includes at least a part of the first item of information, for delivering the data payload to multiple networked devices, wherein the at least part of the first item of information included in the data payload being destined for reception by the first device in a first ordinary packet, and further wherein the at least part of the first item of information included in the data

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payload being destined for reception by the second networked device in a second ordinary unicast packet. It would have been obvious to one of ordinary skill in the art to adapt to Jones system, Nakamura's concept of destination address in the header to save time is delivering the same information several different stations.

- 26. Regarding claim 30, Jones teaches, a computer readable medium containing programming instructions for relaying a packet in a network comprising: receiving a data content part of a first packet; receiving a first destination address part of the first packet; and receiving a second destination address part of the first packet (col. 4, lines 32-43).
- 27. Jones does not teach receiving a first reliable unicast header part associated with the first address; and receiving a second reliable unicast header part associated with the second address.
- Nakamura teaches (col. 8, line 45 col. 9, line 9) unicast headers. It would have been obvious to one of ordinary skill in the art to adapt to Jones's system Nakamura's concept of multiple unicast headers to ensure proper delivery of the message to the designated destination and maintain the tracking of information within the system.
- 29. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jones in view of is Nakamura and in further view of Weaves (U.S. 6873618 B1).
- 30. As mentioned above Jones and Nakamura teach all of the limitations of claim 16, however they do not teach a TCP header.

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31. Weaves teaches (claim 1) a TCP header to form a TCP segment. It would have been obvious to one of ordinary skill in the art to adapt Weaves' TCP header concept to Jones and Nakamura's system to broaden the scope of the invention to include TCP/IP protocol.

- 32. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jones in view of Nakamura's and in further view of Bryden (U.S. 6717944 B1).
- 33. As mentioned above Jones and Nakamura teaches all of the limitations of claim 16, However they do not teach determining a first and second next hop based on the first and second destination addresses.
- 34. Bryden teaches (col. 9, lines 54-56) determining the next hop address based on the destination address. It would have been obvious to one of ordinary skill in the art to adapt to Jones and Nakamura's system Bryden's determination of the next hop address based on the destination address in order to arrive at the best path possible to the destination node.

Allowable Subject Matter

- 35. Claims 7, 8, 15, 19-22, 31 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 36. Claims 23-25, 27, 28 32 and 33 are allowed.

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Conclusion

37. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

- 38. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
- 39. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberta A Shand whose telephone number is 571-272-3161. The examiner can normally be reached on M-F 9:00am-5:30pm.
- 40. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent 41. Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roberta A Shand Examiner Art Unit 2665

EVEN NGUYEN PRIMARY EXAMINER